






# PROCESS FOR PRODUCING ZINC PHOSPHATE COATINGS CONTAINING MANGANESE AND MAGNESIUM

**Patent number:** WO9015889  
**Publication date:** 1990-12-27  
**Inventor:** RIESOP JOERG (DE); GOTTWALD KARL-HEINZ (DE);  
ROLAND WOLF-ACHIM (DE)  
**Applicant:** HENKEL KGAA (DE)  
**Classification:**  
**- international:** C23C22/18; C23C22/36; C23C22/05; (IPC1-7):  
C23C22/18; C23C22/36  
**- european:** C23C22/18H; C23C22/36H  
**Application number:** WO1990EP00919 19900612  
**Priority number(s):** DE19893920296 19890621

## Also published as:

 EP0478648 (A1)  
 US5207840 (A1)  
 DE3920296 (A1)  
 BR9007437 (A)  
 EP0478648 (B1)

more >>

## Cited documents:

 US4717431  
 US4681641  
 EP0287133

**Report a data error here**

## Abstract of WO9015889

The invention relates to a process for producing zinc phosphate coatings containing manganese and magnesium on steel, zinc, aluminium and/or its alloys by spraying with, or spray immersion and/or immersion in, an aqueous solution.

---

Data supplied from the **esp@cenet** database - Worldwide